

[Name of Document] Abstract

[Abstract]

[Problem]

The present invention realizes a steering shaft in which the dimensional tolerance of the components and variations in the finish thereof impart little adverse effects on the energy absorption performance of the shaft.

[0004]

[Means for solving the problem]

In this energy absorption type steering shaft, an outer shaft is press-fitted around an inner shaft. The outer shape of the inner shaft and the inner shape of the outer shaft have a circular cross section and the diameter of the inner shape of the outer shaft is larger than the diameter of the outer shape of the inner shaft. More than three fine members is disposed along the axial direction between the circular cross-sectional outer shape and the circular cross-sectional inner shape in order to provide a clearance between the inner shaft and the outer shaft.

In this energy absorbing steering shaft, more than three fine members prohibit the direct contact of the inner shaft and the outer shaft. Thus, the energy absorption performance is less susceptible to the effects of dimensional tolerances of the inner shaft and outer shaft and variations in the finish thereof. Accordingly, a robust technique is achieved.

[Selected Figure] Fig. 2